L Number	Hits	Search Text	DB	Time stamp
1	65	"6013948"	USPAT;	2003/10/31 08:36
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
2	28	"6072239"	USPAT;	2003/10/31 08:37
1			US-PGPUB;	
ļ			EPO; JPO;	
			DERWENT	
3	6	"6221682"	USPAT;	2003/10/31 08:37
1			US-PGPUB;	
Į į			EPO; JPO;	1
	ı		DERWENT	
4	3	"6429532"	USPAT;	2003/10/31 08:37
			US-PGPUB;	
l i			EPO; JPO;	
			DERWENT	
5	102	"6013948" "6072239" "6221682" "6429532"	USPAT;	2003/10/31 08:37
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
6	73	(US-5586007-\$ or US-5722826-\$ or	USPAT;	2003/10/31 08:37
		US-5601466-\$ or US-5500785-\$ or	US-PGPUB	= 3.55, = 3, 52, 53, 53, 53, 53, 53, 53, 53, 53, 53, 53
		US-5917231-\$ or US-6372624-\$ or	00 10102	
		US-6333555-\$ or US-6339337-\$ or		
		US-6320397-\$ or US-6329722-\$ or		
1		US-6150717-\$ or US-6130148-\$ or		
		US-5519332-\$ or US-5206585-\$ or		
		US-5426266-\$ or US-6404063-\$ or		
		US-5962921-\$ or US-6358831-\$ or		
1		US-6281041-\$ or US-6287950-\$ or		}
ļ		US-6112002-\$ or US-6198170-\$ or		
1		US-4983908-\$ or US-5042148-\$ or		
		US-5287002-\$ or US-5491352-\$).did. or		
		(US-6181144-\$ or US-5926029-\$ or		
		US-5678301-\$ or US-6022797-\$ or		
		US-5986294-\$ or US-5892276-\$ or	Ì	
ļ		US-6343514-\$ or US-5563901-\$ or	ļ	
		US-6184971-\$ or US-6351405-\$ or		
[]		US-5891745-\$ or US-6369407-\$ or		
		US-6166556-\$ or US-5899703-\$ or		1
[US-6342399-\$ or US-5319224-\$ or		}
		US-6258700-\$ or US-4633280-\$ or		
		US-4747076-\$ or US-4899174-\$ or		
		US-6337507-\$ or US-4413272-\$ or		
		US-5969404-\$ or US-4748491-\$ or		
		US-5708291-\$ or US-4494135-\$ or		
		US-4924276-\$).did. or (US-5063420-\$ or		
		US-6008061-\$ or US-6403391-\$ or	1	
		US-5976953-\$ or US-6091155-\$ or		
		US-5854513-\$ or US-5886414-\$ or		
		US-5783868-\$ or US-5554940-\$ or		
		US-5731709-\$ or US-5506499-\$ or		
		US-5517127-\$ or US-4951098-\$ or		
		US-6429675-\$ or US-6373143-\$ or		
		US-5258648-\$ or US-5334857-\$).did. or		1
		(US-20010020749-\$ or US-20010019180-\$ or		
		US-20020003822-\$).did.		
		7, 444	_1	

	·	T'		
7	102	("6013948" "6072239" "6221682" "6429532")	USPAT;	2003/10/31 08:37
		not ((US-5586007-\$ or US-5722826-\$ or	US-PGPUB;	
	}	US-5601466-\$ or US-5500785-\$ or	EPO; JPO;	1
	ļ	US-5917231-\$ or US-6372624-\$ or	DERWENT	
j		US-6333555-\$ or US-6339337-\$ or		
		US-6320397-\$ or US-6329722-\$ or		1
1	1	US-6150717-\$ or US-6130148-\$ or		\
		US-5519332-\$ or US-5206585-\$ or		
		US-5426266-\$ or US-6404063-\$ or		
		US-5962921-\$ or US-6358831-\$ or	1	1
			1	(
		US-6281041-\$ or US-6287950-\$ or		
1		US-6112002-\$ or US-6198170-\$ or		j
	ļ	US-4983908-\$ or US-5042148-\$ or		
		US-5287002-\$ or US-5491352-\$).did. or		
		(US-6181144-\$ or US-5926029-\$ or		
1		US-5678301-\$ or US-6022797-\$ or		
	,	US-5986294-\$ or US-5892276-\$ or		
1		US-6343514-\$ or US-5563901-\$ or		
1		US-6184971-\$ or US-6351405-\$ or	1	!
		US-5891745-\$ or US-6369407-\$ or	}	
1		US-6166556-\$ or US-5899703-\$ or		
1	1	US-6342399-\$ or US-5319224-\$ or		ļ
j	1	US-6258700-\$ or US-4633280-\$ or		
1	1	US-4747076-\$ or US-4899174-\$ or		
		US-6337507-\$ or US-4413272-\$ or	1	j
1	1	US-5969404-\$ or US-4748491-\$ or	1	
1	[US-5708291-\$ or US-4494135-\$ or	1	
1	1	1	1	
1		US-4924276-\$).did. or (US-5063420-\$ or		
	}	US-6008061-\$ or US-6403391-\$ or		
		US-5976953-\$ or US-6091155-\$ or		
		US-5854513-\$ or US-5886414-\$ or		İ
	1	US-5783868-\$ or US-5554940-\$ or	†	
		US-5731709-\$ or US-5506499-\$ or		
	1	US-5517127-\$ or US-4951098-\$ or		
1	1	US-6429675-\$ or US-6373143-\$ or]	
1		US-5258648-\$ or US-5334857-\$).did. or		
		(US-20010020749-\$ or US-20010019180-\$ or		
Ì		US-20020003822-\$).did.)		
_	0	(bond\$3 near pad) with (two near phased	USPAT;	2002/06/28 10:08
1	1	near region) with air	EPO; JPO	
_	0		USPAT;	2001/05/02 09:30
		near region)	EPO; JPO	2001/03/02 03:30
1_	53	(bond\$3 near pad) near4 (dot mesh)	1	2001/09/10 07:21
[-	33	(bond\$3 hear pad) hear4 (dot mesh)	USPAT;	2001/09/10 07:21
	200	10	EPO; JPO	2002/04/10 14:54
} -	386	bond\$3 near pad near structure	USPAT;	2002/04/19 14:54
1	[(1) 142	EPO; JPO	0001/00/55 55 6
1 -	4	(bond\$3 near pad near structure) and	USPAT;	2001/09/10 07:23
i	1	(reduced near1 capacitance)	EPO; JPO	
i –	2	(bond\$3 near pad near structure) with air	USPAT;	2001/05/02 14:24
1	[EPO; JPO	(
-	140	(bond\$3 near pad) with air	USPAT;	2001/05/04 08:39
]		EPO; JPO)
-	45	((bond\$3 near pad) with air) and	USPAT;	2001/09/10 07:22
		interconnect\$3	EPO; JPO	
1 -	37	kishi adj atsushi.in.	USPAT;	2001/05/04 08:48
1	"		EPO; JPO	2001,00,01
1_	4	hamada adj natsuko.in.	USPAT;	2001/05/04 08:52
1	1	mamada adj nacodko.m.		2001/03/04 00:32
1_	52	kikuta adj shigeru.in.	EPO; JPO	2001/05/04 00-04
ļ -	52	kikuca adj shigeru.in.	USPAT;	2001/05/04 09:04
	_	nougheald and binachi de	EPO; JPO	2001/05/04 20:05
] -	2	narahashi adj hiroshi.in.	USPAT;	2001/05/04 09:05
		40 100	EPO; JPO	0001/05/01 55 55
_	24	((bond\$3 near pad) with (conductive near2	USPAT;	2001/05/04 09:20
		ring))	EPO; JPO	
-	15	chijiiwa adj masahiro.in.	USPAT;	2001/05/04 09:21
			EPO; JPO	ļ
-	27	shiraiwa adj hidehiko.in.	USPAT;	2001/05/04 09:21
]			EPO; JPO]
} -	39	chijiiwa adj masahiro.in.) (shiraiwa adj	USPAT;	2001/05/04 09:21
1		hidehiko.in.	EPO; JPO	
] -	54	(bond\$3 near pad) near4 (dot mesh)	USPAT;	2001/09/10 07:21
1	, ·	(= 1111, 1 1102 pas, 11321 (acc most)	EPO; JPO	1202,03,10 021
			1 220, 010	

				<u> </u>	
_	51	((bond\$3 near pad) with air) and interconnect\$3	USPAT;	2001/09/10	07:22
-	413		EPO; JPO USPAT;	2001/09/10	07:23
-	5	(bond\$3 near pad near structure) and	EPO; JPO USPAT;	2001/09/10	07:23
_	439	((reduced reducing)near1 capacitance) ((bonding bond) near pad) near1 structure	EPO; JPO USPAT;	2002/04/19	14:59
			EPO; JPO		
_	14	(((bonding bond) near pad) near1 structure) and damascene	USPAT; EPO; JPO	2002/04/19	15:14
-	12	((((bonding bond) near pad) near1 structure) and damascene) and copper	USPAT; EPO; JPO	2002/04/19	15:31
-	9		USPAT; EPO; JPO	2002/04/19	15:32
_	8446	polyimide aerogel parylene) (flipchip (flip adj chip))	USPAT;	2002/06/28	10:09
_	13145	(flipchip (flip adj chip))	EPO; JPO USPAT;	2002/06/28	13:04
			US-PGPUB; EPO; JPO;		
_	2877		DERWENT USPAT;	2002/06/28	10:22
		bonding) adj pad)	US-PGPUB; EPO; JPO;		
_	476	((bond bonding) adj pad) near3 (thick	DERWENT USPAT:	2002/06/28	13:08
		thickness)	US-PGPUB;	2002,00,20	13.00
			EPO; JPO; DERWENT	l .	
_	75	((flipchip (flip adj chip))) and (((bond bonding) adj pad) near3 (thick thickness))	USPAT; US-PGPUB;	2002/06/28	10:23
		achazing, and pan, nours (enter entermissor,	EPO; JPO; DERWENT	1	
	0	6339337.URPN.	USPAT	2002/06/28	10:32
_	5	("4841150" "5406213" "5493236" "5532607" "5761337").PN.	USPAT	2002/06/28	10:32
-	17	5426266.URPN.	USPAT	2002/06/28	
_	1 39	"5307559".PN. 5206585.URPN.	USPAT USPAT	2002/06/28	
-	503	((bond bonding) adj pad) with dimension	USPAT; US-PGPUB; EPO; JPO;	2002/06/28	13:05
_	29378	((bond bonding) adj pad) near3dimension	DERWENT USPAT; US-PGPUB;	2002/06/28	13:05
	216	((bond bonding) adj pad) near3 dimension	EPO; JPO; DERWENT USPAT;	2002/06/28	13.05
i i		(the bonding) day pady nears dimension	US-PGPUB; EPO; JPO;	2002/00/20	13.00
-	6	(((bond bonding) adj pad) near3 (thick	DERWENT USPAT;	2002/06/28	13:05
		thickness)) with dimension	US-PGPUB; EPO; JPO;		
1_	1545	//hand handing) and made with (452-1	DERWENT	2002/06/22	12.00
_	1.545	((bond bonding) adj pad) with (thick thickness)	USPAT; US-PGPUB;	2002/06/28	13:09
ļ			EPO; JPO; DERWENT		
-	114	(((bond bonding) adj pad) with dimension)	USPAT;	2002/06/28	13:13
		and (((bond bonding) adj pad) with (thick thickness))	US-PGPUB; EPO; JPO;		
_	95	((((bond bonding) adj pad) with dimension)	DERWENT USPAT;	2002/06/28	13:13
		and (((bond bonding) adj pad) with (thick thickness))) not (((flipchip (flip adj	US-PGPUB; EPO; JPO;		
		chip))) and (((bond bonding) adj pad)	DERWENT		
_	0	near3 (thick thickness))) 6287950.URPN.	USPAT	2002/06/28	13:29
-	5	("4628590" "5731243" "5807787" "6060378" "6200889").PN.	USPAT	2002/06/28	
	3	6060378" "6200889").PN. 6198170.URPN.	USPAT	2002/06/28	13:33
		1/21/02 0.02.12 AM Dago 2			

				T
-	0	6112002.URPN.	USPAT	2002/06/28 13:38
-	2	("5857049" "5909524").PN.	USPAT	2002/06/28 13:38
-	10 5	5287002.URPN. 5391920.URPN.	USPAT	2002/06/28 13:46 2002/06/28 13:49
] _	11	5042148.URPN.	USPAT USPAT	2002/06/28 13:49
_	21	("3809625" "4027935" "4161692"	USPAT	2002/06/28 13:53
{	21	"4585991" "4906920" "5042148"	OSFAI	2002/00/28 13.55
		"5172050" "5177439" "5180977"		[
		"5225037" "5264787" "5483741"		
)	"5565767" "5678301" "5686317"		1
}	}	"5712571" "5915977" "5917329"		1
	1	"5926029" "5931685" "5962921").PN.		
-	10		USPAT	2002/06/28 13:59
]	10	5565767.URPN.	USPAT	2002/06/28 13:59
-	5	("3867693" "4508981" "4720671"	USPAT	2002/06/28 13:59
	1	"4779041" "5280237").PN.		}
1 -	40	5678301.URPN.	USPAT	2002/06/28 14:00
-	6	("3813773" "4059480" "4066491"	USPAT	2002/06/28 14:04
1		"4647476" "4851767" "4961052").PN.		1
-	6	"5892276"	USPAT;	2002/06/28 14:40
	1		US-PGPUB;	
			EPO; JPO;	
İ		W5004000W	DERWENT	
1 -	10	"5391920"	USPAT;	2002/06/28 14:41
}	1		US-PGPUB;	}
	1		EPO; JPO;	1
	16	 "5892276"	DERWENT	2002/06/22 34:41
-	10	0.0092276	USPAT;	2002/06/28 14:41
	1		US-PGPUB; EPO; JPO;	}
1	1		DERWENT	
_	2	5892276.URPN.	USPAT	2002/06/28 14:48
1 -	2	5892276.URPN.	USPAT	2002/06/28 14:50
-	2	("5075753" "5581109").PN.	USPAT	2002/06/28 14:50
-	2	("5162893" "5436485").PN.	USPAT	2002/06/28 14:51
-	162	(((bond bonding) adj pad) near3 dimension)	USPAT;	2002/06/28 16:08
1	1	not ((((bond bonding) adj pad) with	US-PGPUB;	1
1	l	dimension) and (((bond bonding) adj pad)	EPO; JPO;	l
1		with (thick thickness)))	DERWENT	1
) -	162	((((bond bonding) adj pad) near3	USPAT;	2002/06/28 14:55
}	4	dimension) not ((((bond bonding) adj pad)	US-PGPUB;	}
		with dimension) and (((bond bonding) adj	EPO; JPO;	1
l	1	pad) with (thick thickness)))) not	DERWENT	l
	1	(((flipchip (flip adj chip))) and (((bond		
1	1	bonding) adj pad) near3 (thick	1	1
1_	,	thickness)))	HEDATE	2002/06/28 15:04
1 _	3 20	6081429.URPN. ("4322778" "4750092" "4772936"	USPAT USPAT	2002/06/28 15:04
-	[20	("4322778" "4750092" "4772936" "5045921" "5258648" "5313366"	USEAL	2002/06/28 13:05
]	"5515241" "5541450" "5559445"		
	1	3515241		1
	1	3613089	}	1
		"5754396" "5767575" "5770891"	!	
	1	"5800184" "5969534").PN.		1
] _	47	(((((bond bonding) adj pad) near3	USPAT;	2002/06/28 15:31
		dimension) not ((((bond bonding) adj pad)	US-PGPUB;	= 352, 53, 25 25.52
	ļ	with dimension) and (((bond bonding) adj	EPO; JPO;	
		pad) with (thick thickness)))) not	DERWENT	
		(((flipchip (flip adj chip))) and (((bond		
)	bonding) adj pad) near3 (thick)
1	}	thickness)))) and micron	1	
[-	390	array near3 (light adj emitter)	USPAT;	2002/06/28 16:37
1		_	US-PGPUB;	
1]		EPO; JPO;	
1			DERWENT	
-	1	(array near3 (light adj emitter)) with	USPAT;	2002/06/28 16:39
[[substrate with (laser photodetector)	US-PGPUB;	(
			EPO; JPO;	
L		<u></u>	DERWENT	l

				, , , _ , , , , , , , , , , , , , , , ,
-	60	(array near3 (light adj emitter)) with (laser photodetector)	USPAT; US-PGPUB; EPO; JPO;	2002/06/28 16:07
			DERWENT	
_	7	((array near3 (light adj emitter)) with	USPAT;	2002/06/28 16:08
1]	(laser photodetector)) and pad	US-PGPUB;	
4	ļ '	(-asst prostation), and par	EPO; JPO;	
ļ			DERWENT	
_	12	(array near3 (light adj emitter)) and	USPAT;	2002/06/28 16:30
	12	((bond bonding) adj pad)	US-PGPUB;	2002/00/20 10.30
	!	((bond bonding) adj pad)	EPO; JPO;	
	1		DERWENT	
1_	1	6184971.URPN.	USPAT	2002/06/28 16:10
1 _	8	("5255013" "5258629" "5745152"	USPAT	2002/06/28 16:11
-	•	(3233013	USPAI	2002/00/28 10:11
	!	3609216		1
]			LICDAM	2002/06/20 16:26
-	6	5258629.URPN.	USPAT	2002/06/28 16:26
	()		USPAT	2002/06/28 16:26
	1	"4951098" "5134340" "5138337"		
] _ !	"5138338").PN.		1 0000 100 100 100
_	7	,	USPAT	2002/06/28 16:29
		"4951098" "5134340" "5138337"	l	
1	1	"5138338").PN.		0000106155
-	1686	1 '	USPAT;	2002/06/28 16:39
	,	pad)	US-PGPUB;	1
			EPO; JPO;	
			DERWENT	
-	696	array with (light near emitter)	USPAT;	2002/06/28 16:38
	!		US-PGPUB;	
	!		EPO; JPO;	
1			DERWENT	
-	1 '	((test testing) with ((bond bonding) adj	USPAT;	2002/06/28 16:38
	ļ , , , , , , , , , , , , , , , , , , ,	pad)) and (array with (light near	US-PGPUB;	
		emitter))	EPO; JPO;	
]		DERWENT	
-	869		USPAT;	2002/06/28 16:39
	!	pad)) and probe	US-PGPUB;	
			EPO; JPO;	
1	!		DERWENT	
-	285	(((test testing) with ((bond bonding) adj	USPAT;	2002/06/28 16:40
1	ļ !	pad)) and probe) and (laser photodetector	US-PGPUB;	
]		led (light adj emitter))	EPO; JPO;	
1	1		DERWENT	
-	38	(US-5722826-\$ or US-5601466-\$ or	USPAT;	2002/06/28 16:40
1	ļ .	US-5586007-\$ or US-5500785-\$ or	US-PGPUB	
Į i	1	US-5917231-\$ or US-6198170-\$ or	1	
]	1	US-6372624-\$ or US-6339337-\$ or		
1	1	US-6333555-\$ or US-6329722-\$ or		}
1	[US-6320397-\$ or US-6150717-\$ or	1	
]	US-6130148-\$ or US-5519332-\$ or	1	
] [1	US-5426266-\$ or US-5206585-\$ or	1	1
1	1	US-6404063-\$ or US-5962921-\$ or		}
!	1	US-6358831-\$ or US-6287950-\$ or	!	
:	, !	US-6281041-\$ or US-6112002-\$ or	1	
]]	US-5287002-\$ or US-5042148-\$ or	1	1
'	1	US-4983908-\$ or US-5491352-\$).did. or	1	
		(US-6181144-\$ or US-5926029-\$ or	(
		US-5678301-\$ or US-6022797-\$ or	1	
]	1	US-5986294-\$ or US-5892276-\$ or]	
!	, ,	US-6343514-\$ or US-5563901-\$ or	{	
	(US-6184971-\$).did. or (US-20010020749-\$ or	(
		US-20010019180-\$ or US-20020003822-\$).did.		
L	i	103-20010013100-3 OL 03-20020003622-3).dld.	L	<u> </u>

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-	282	(, , , , , , , , , , , , , , , , , , ,	USPAT;	2002/06/28 16:41
1		pad)) and probe) and (laser photodetector	US-PGPUB;	1
		led (light adj emitter))) not	EPO; JPO;	
		((US-5722826-\$ or US-5601466-\$ or	DERWENT	
[ļ	US-5586007-\$ or US-5500785-\$ or		}
1		US-5917231-\$ or US-6198170-\$ or		İ
1		US-6372624-\$ or US-6339337-\$ or		
}		US-6333555-\$ or US-6329722-\$ or	1	
		US-6320397-\$ or US-6150717-\$ or	į.	
		US-6130148-\$ or US-5519332-\$ or		
		US-5426266-\$ or US-5206585-\$ or	1	
		US-6404063-\$ or US-5962921-\$ or		1
		US-6358831-\$ or US-6287950-\$ or	•	(
		US-6281041-\$ or US-6112002-\$ or		
		US-5287002-\$ or US-5042148-\$ or	1	
1		US-4983908-\$ or US-5491352-\$).did. or		1
1		(US-6181144-\$ or US-5926029-\$ or		1
	1	US-5678301-\$ or US-6022797-\$ or		
]	US-5986294-\$ or US-5892276-\$ or	1	
	1	US-6343514-\$ or US-5563901-\$ or	j	
	1	US-6184971-\$).did. or (US-20010020749-\$ or		1
		US-20010019180-\$ or		
		US-20020003822-\$).did.)		
-	197	((((test testing) with ((bond bonding)	USPAT;	2002/06/28 16:43
1	1	adj pad)) and probe) and (laser	US-PGPUB;	
	Į	photodetector led (light adj emitter)))	EPO; JPO;	
		not ((US-5722826-\$ or US-5601466-\$ or	DERWENT	İ
1	1	US-5586007-\$ or US-5500785-\$ or		
1		US-5917231-\$ or US-6198170-\$ or	Į.	
		US-6372624-\$ or US-6339337-\$ or	i	
		US-6333555-\$ or US-6329722-\$ or		İ
	1	US-6320397-\$ or US-6150717-\$ or]	
	}	US-6130148-\$ or US-5519332-\$ or		
	Į i	US-5426266-\$ or US-5206585-\$ or	l	
	1	US-6404063-\$ or US-5962921-\$ or		
1	1	US-6358831-\$ or US-6287950-\$ or		
		US-6281041-\$ or US-6112002-\$ or	1	
		US-5287002-\$ or US-5042148-\$ or	1	
		US-4983908-\$ or US-5491352-\$).did. or		
		(US-6181144-\$ or US-5926029-\$ or]	1
		US-5678301-\$ or US-6022797-\$ or	}	Ì
		US-5986294-\$ or US-5892276-\$ or	Į.	
	Į i	US-6343514-\$ or US-5563901-\$ or		1
]	US-6184971-\$).did. or (US-20010020749-\$ or	1	
		US-20010019180-\$ or	1	
	}	US-20020003822-\$).did.)) and (thickness	{	1
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1	}	photodetector led (light adj emitter)))	EPO; JPO;	1
	ļ .	not ((US-5722826-\$ or US-5601466-\$ or	DERWENT	(
		US-5586007-\$ or US-5500785-\$ or		
]	US-5917231-\$ or US-6198170-\$ or		
	[US-6372624-\$ or US-6339337-\$ or		
		US-6333555-\$ or US-6329722-\$ or		1
1		US-6320397-\$ or US-6150717-\$ or		
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1	į į	US-6404063-\$ or US-5962921-\$ or		
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-	4	4747076.URPN.	USPAT	2002/06/30 19:37
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!_ [2702	light adj emitting adj diode adj array	USPAT;	2002/06/30 21:16
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1		emitting adj diode adj array)	US-PGPUB;	
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-	29	("3717800" "4223337" "4241360"	USPAT	2003/07/16 08:38
ł !		"4403240" "4447857" "4951098"		1
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1	1	"5342992" "5442740" "5455460"]]
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1 - 1	9	5854513.URPN.	USPAT	2003/07/16 08:40
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1	,	"5349239" "5554887" "5629564"		2000/0//10 00:41
,		"5631499" "5665639").PN.		1
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